IRON AND STEEL ENGINEER INDEX FOR 1951

Herewith is presented the index of all authors and papers published in the IRON AND STEEL ENGINEER for the year 1951

LIST OF AUTHORS

A

ABRAMS, J. H. and STUCK, WILLIAM H. — "Continuous Cascade Pickling," February, 1951, Page 101.
ALMEIDA, A. ROBERT and WALKER, HAROLD — "Jet Tapper Practice at the Open Hearth," December, 1951, Page 108.
ANDERSON, ERIC — "AISE Carbon Brush Standardization (Progress Report)" May, 1951, Page 114.
ANTRIM, M. B. — "Report on Mill Motor Standardization," May, 1951, Page 118.
AUSTERMILLER, E. O. — "Design and Operating of National Tube's Sintering Plant," October, 1951, Page 111.
AVERY, HOWARD S. — "Hard Facing Alloys for Steel Mill Use," September, 1951, Page 81.

B

BABCOCK, J. T. W. — "Fire Protection for Electrical Equipment," January, 1951, Page 96.
BALL, HARVEY — "Electric Control of Twin Bridge Drives with No Torque Shafts," March, 1951, Page 78.
BARGMAN, B. B. — "Operating Advantages and Limitations of Open Hearth Controls," March, 1951, Page 91.
BEEGHLY, R. T. — "Tungsten Carbide Rolls for Cold Rolling Metals," April, 1951, Page 74.
BERGLUND, E. A. — "Oil-Hydraulic Equipment," November, 1951, Page 75.
BIBLE, MAXWELL L. — "Rolling Solutions for Specialty Steels," June, 1951, Page 91.
BIGGE, H. C. — "Rolling of Tool Steels," May, 1951, Page 57.
BISHOP, C. A., BRISSE, A. E., THOMPSON, R. G., LIEBEL, C. R. and SWANEY, W. A. — "Cleaning Ferromanganese Blast Furnace Gas," August, 1951, Page 134.
BISHOP, W. O. — "Blast Furnace Controlled Split-Wind Blowing at Algoma Steel Corp.," July, 1951, Page 78.
BLACK, W. A. — "Non-Contacting Thickness Gages for Flat Rolled Steel Products," August, 1951, Page 132.
BOAL, JOHN F. — "Transformer Oil in the Steel Plant," July, 1951, Page 97.
BOHO, M. J. — "Automatic Control for Multiple Fuel-Fired Boilers," February, 1951, Page 96.
BREMNER, R. P. — "Modern Coal Cleaning in the Pittsburgh Area," August, 1951, Page 127.
BRISSE, A. E., THOMPSON, R. G., LIEBEL, C. R., SWANEY, W. A. and BISHOP, C. A. — "Cleaning Ferromanganese Blast Furnace Gas," August, 1951, Page 134.
BUTLER, C. A. — "How to Organize an Engineering Department — A Round Table Symposium," November, 1951, Page 55.

C

CAMPBELL, GEORGE J. — "Heating of Steel Mill Buildings," September, 1951, Page 139.
CARSON, S. — "Maintenance of Oil Film Bearings," October, 1951, Page 106.
CAUGER, EDWARD H. and CONWAY, MARTIN J. — "Instrumentation and Control for Mixed Fuels and Oxygen in Open Hearth Furnaces," July, 1951, Page 106.
CHAFFEE, R. W. — "How to Organize an Engineering Department — A Round Table Symposium," November, 1951, Page 55.
CHAPMAN, R. O. — "Maintenance of Building Structures," December, 1951, Page 85.
CHEGWIDDEN, J. R. — "Effect of Track Time on Soaking Pit Heating," December, 1951, Page 53.
CICHELLI, A. E. — "Recent Lubricating Problems at Sparrows Point," December, 1951, Page 110.
CONWAY, MARTIN J. — "Construction and Operation of Tonnage Oxygen Plants," March, 1951, Page 58.
CONWAY, MARTIN J. and CAUGER, EDWARD H. — "Instrumentation and Control for Mixed Fuels and Oxygen in Open Hearth Furnaces," July, 1951, Page 106.
COOPER, J. E. — "Waste Treatment in the Modern Steel Mill," November, 1951, Page 81.
COOPER, R. C. — "Increased Productivity Through Incentives," August, 1951, Page 138.
CORTELLI, JOHN A. — "Possibilities of Standardizing Crane Control," March, 1951, Page 81.
COTSWORTH, JOHN L. — "Developments in the Use of Stainless Steel," November, 1951, Page 66.
COX, G. L. — "Properties and Application of Ductile Iron," December, 1951, Page 75.
CROFT, A. C. — "Supervisory Development," June, 1951, Page 110.
CULP, L. D. — "Instrumentation for Improved Rolling Temperature Control," November, 1951, Page 85.

D

DARNER, F. M. — "How to Organize an Engineering Department — A Round Table Symposium," November, 1951, Page 53.
DEIMLER, J. W. — "Limiting Maximum Overload on Wound Rotor Induction Motor," October, 1951, Page 90.
DENNE, E. C. — "Selecting Gears for Rolling Mill Equipment," April, 1951, Page 62.
DIMITT, C. G. — "Wiring Standardization (Progress Report)," May, 1951, Page 122.
DiVINCENZO, ANTHONY P. — "Designing Electronic Equipment for Minimum Maintenance," December, 1951, Page 95.
DuBOIS, M. A. — "Crane Resistor Design," March, 1951, Page 77.

E

ESS, T. J. — "Alan Wood Steel Co.," May, 1951, Following Page 88.

F

FITCH, T. S. — "Washington Steel Corp.'s 39-In. Cold Mill," August, 1951, Page 51.
FRENCH, W. — "Light Section Mill at Darlington and Simpson Rolling Mill Co., Ltd." October, 1951, Page 102.

G

GLAUCH, E. S. — "Graphite as a Lubricant," August, 1951, Page 58.
GOLDEN, JOHN J. and WARREN, JR., HENRY E. — "Open Hearth Charge Ores," August, 1951, Page 125.
GOOD, J. A. — "Television in Industry," March, 1951, Page 107.
GOULD, LEO J. — "Report of Activities of AISE Standardization Committee," May, 1951, Page 113.
GRAHAM, F. H. — "Some Aspects of Soaking Pit Operation," October, 1951, Page 78.
GREEN, JOHN R. — "Operation and Maintenance of Electronically Operated Instrument Equipment," May, 1951, Page 102.
GREENBERGER, J. I. — "A New Processing Scalebreaker," June, 1951, Page 95.
GRINDLE, AUBREY J. — "Dust Fume and Smoke Suppression," July, 1951, Page 87.

H

HAAGER, PAUL L. — "Maintenance of Roller Bearings in Steel Plants," September, 1951, Page 172.
HARRIS, W. R. — "Application of Electronic Control," December, 1951, Page 89.
HARRIS, W. R. and MOORE, R. W. — "Acceleration Characteristics of Tandem Cold Reduction Mills," July, 1951, Page 63.
HEAD, E. W. — "Supervisory Control and Telemetering as Cost Reduction Tools," January, 1951, Page 83.
HENRY, P. E., RAMSEYER, C. F. and MILLER, J. R. — "Krupp-Renn Tests on French Minette Ore," February, 1951, Page 66.
HERMAN, WILLIAM — "19-Stand Rod Mill of Keystone Steel and Wire Co.," January, 1951, Page 91.
HILL, E. G. and POWERS, ROBERT E. — "Testing of Sinter," August, 1951, Page 121.
HILL, J. E. and TRIMBLE, J. R. — "Some Aspects of Annealing Atmospheres for Tin Plate Strip," April, 1951, Page 70.
HOUGHTON, H. C. — "The Bethlehem Loop Course," October, 1951, Page 55.
HOVIS, JAMES — "Application of Precast Insulation to Water-Cooled Supports in Underfired Furnaces," November, 1951, Page 69.
HUSTON, JR., C. L. — "Increased Productivity Through Human Relations," August, 1951, Page 138.

J

JAMESON, S. L. — "Ventilation of Steel Mill Motors and Motor Rooms," January, 1951, Page 68.
JOHNSON, H. W. — "Problems in Steel Plant Administration," October, 1951, Page 122.
JOHNSON, HJALMAR W. — "Increased Productivity Through Safety and Accident Prevention," August, 1951, Page 136.
JOHNSON, WILLIAM S. — "Ventilation of Steel Mill Buildings," September, 1951, Page 145.
JONES, J. F. R. — "The New 42-in. Slabbing Mill at Shotton," October, 1951, Page 93.
JORDAN, R. M. — "Effect of Automatic Controls on Open Hearth Production at Lackawanna," August, 1951, Page 63.
JOYCE, DOUGLAS and LAIDLOW, J. — "Blast Furnace Inwall Rebuild at Algoma," September, 1951, Page 75.

K

KAUFMAN, G. A. and POWELL, J. R. — "Operating the World's Fastest Mill," January, 1951, Page 73.
KENNEDY, GEORGE — "Motor Inspector Training," July, 1951, Page 74.
KENYON, A. F. — "Power for Hot Strip Mills," April, 1951, Page 80.
KIPP, E. M. and ZEILER, C. A. — "Laboratory Screening of Multi-Purpose Greases," September, 1951, Page 107.
KOMPART, WALTER W. — "Economics of a 500-ton Open Hearth Furnace," March, 1951, Page 55.
KOPAS, JOSEPH S. — "Increased Productivity Through Training," August, 1951, Page 137.
KRAPF, G. H. — "Conversion of Filters to Zeolite Softeners," November, 1951, Page 98.
KUKA, K. S. — "Fuses and Circuit Breakers for Short Circuit Protection," May, 1951, Page 108.
KURTZ, J. K. and STAHL, C. W. — "Density Control of Coal Charged to Coke Ovens," May, 1951, Page 93.

L

LAIDLOW, J. and JOYCE, DOUGLAS — "Blast Furnace Inwall Rebuild at Algoma," September, 1951, Page 75.
LAMBERT, C. S. — "Roller Guides in Modern Merchant Mill Practice," February, 1951, Page 79.
LARSON, LEONARD — "How to Organize an Engineering Department — A Round Table Symposium," November, 1951, Page 53.
LEITCH, JOHN D. — "Design of Crane Control," March, 1951, Page 70.
LEWIS, JAMES H. — "Extreme Pressure Lubricants," September, 1951, Page 114.
LIEBEL, C. R., SWANEY, W. A., BISHOP, C. A., BRISSE, A. E. and THOMPSON, R. G. — "Cleaning Ferromanganese Blast Furnace Gas," August, 1951, Page 134.
LLOYD, D. W. — "Modern Blooming Mill Practices," February, 1951, Page 59.
LOVITT, L. E. — "Lubrication and Maintenance of Bearings," September, 1951, Page 169.
LOWELL, W. O. — "The Axial Compressor for Blast Furnace Blowing," October, 1951, Page 64.

M

MADSEN, I. E. — "AISE Specification for Design of Hot Metal Ladles," May, 1951, Page 119.
MADSEN, I. E. — "Developments in the Iron and Steel Industry During 1950," January, 1951 Page 109.
MARSH, JOHN S. — "Significance of Air Temperature in Open Hearth Operation," August, 1951, Page 117.
MARSHALL, W. E. — "The Effect of Sinter on Blast Furnace Production as Determined by Analysis of Daily Operating Data," August, 1951, Page 124.
McAULY, A. W. — "Handling and Storage of Electrical Parts," December, 1951, Page 66.
McDILL, BRUCE M. — "Pollution Control Program for Ohio," August, 1951, Page 101.
McDONOUGH, W. G. — "Oxygen as a Means of Increasing Bessemer Production," August, 1951, Page 116.
MIDDLETON, J. H. — "Manufacture of Electric Fusion Welded Pipe," March, 1951, Page 66.
MILLER, J. R., HENRY, P. E. and RAMSEYER, C. F. — "Krupp-Renn Tests on French Minette Ore," February, 1951, Page 66.
MOHRI, A. F. — "Steel Quality as Affected by Track Time and Soaking Pit Practice," August, 1951, Page 130.
MONKS, GEORGE S. — "How to Organize an Engineering Department — A Round Table Symposium," November, 1951, Page 55.
MOORE, R. W. and HARRIS, W. R. — "Acceleration Characteristics of Tandem Cold Reduction Mills," July, 1951, Page 63.
MOSES, LOUIS — "A Report of Rolling Experiences," January, 1951, Page 59.
MUAN, ARNULF and OSBORN, E. F. — "Fundamental Investigation of Steel Plant Refractories Problems," August, 1951, Page 124.
MULLINGS, H. C. — "Preventive Maintenance for Electric Overhead Cranes," May, 1951, Page 76.

N

NILSEN, A. A. — "Recent and Prospective Sinter Plant Improvements," August, 1951, Page 122.
NORTHRUP, H. H. — "Jet Tapping of Open Hearth Furnaces," July, 1951, Page 83.

O

OSBORN, E. F. and MUAN, ARNULF — "Fundamental Investigation of Steel Plant Refractories Problems," August, 1951, Page 124.

P

PEACOCK, J. A. — "New Blooming and Billet Mills at Normandy Park Steel Works of John Lysaght's Scunthorpe Works, Ltd.," October, 1951, Page 95.
PETERSON, E. T. — "A New Slab Shear at Rotary Electric Steel Co.," December, 1951, Page 59.
PHIPPS, G. A. — "Rod and Bar Mill at Guest Keen and Nettlefolds, Ltd., Cardiff," October, 1951, Page 99.
POWELL, J. R. and KAUFMAN, GEORGE A. — "Operating the World's Fastest Mill," January, 1951, Page 73.
POWERS, ROBERT E. — "Improving Current Practice in Blast Furnace Sintering," August, 1951, Page 120.
POWERS, ROBERT E. and HILL, E. G. — "Testing of Sinter," August, 1951, Page 121.
PRITCHARD, C. E. — "AISE Recommended Plain Bearing Design Practice," May, 1951, Page 116.

R

RAMSEYER, C. F. — "Electric Furnace or Open Hearth?," June, 1951, Page 57.
RAMSEYER, C. F., MILLER, J. R. and HENRY, P. E. — "Krupp-Renn Tests on French Minette Ore," February, 1951, Page 66.
REINKEN, L. W. — "Electroplating Rectifiers," February, 1951, Page 89.
RICE, OWEN R. — "Hazards of Back-Drafting," April, 1951, Page 118.
RIGBY, JOSEPH A. — "Lubrication of Wire Rope," September, 1951, Page 131.
RIGBY, JOSEPH A. — "Lubrication of Enclosed Gears Subject to Chronic Water Conditions," November, 1951, Page 73.
RISLER, C. B. — "Adjustable Voltage Drives for Ore Handling," June, 1951, Page 102.
RISSLER, L. R. — "New Developments in Scrap Handling for the Open Hearth," August, 1951, Page 108.
ROBERTS, R. E. — "Human Relations in Industry," June, 1951, Page 68.
ROBINSON, O. P. — "Maintenance of Electronic Control," December, 1951, Page 99.

S

SARASIN, B. B. and TIETIG, JR., R. — "Storage and Distribution of Oxygen for the Open Hearth," June, 1951, Page 81.
SCHLOSSBERG, V. E. — "Grounding Practice at Inland Steel," June, 1951, Page 77.
SCHNEIDER, J. HENRY — "Low Inertia D-C Motors for Rolling Mill Drives," October, 1951, Page 71.
SHEDD, R. R. — "Metallic Recuperators for Slab Heating Furnaces," July, 1951, Page 55.
SHOFF, E. W. — "Dry Cleaning with Corn Cob Grits," September, 1951, Page 126.
SIEGERIST, WALTER — "Centerless Turning of Bars, Billets and Tubes," May, 1951, Page 67.
SKINKLE, W. B. — "Economics of Purchased Power vs Plant Generated Power in the Pittsburgh District," August, 1951, Page 85.
SMIGEL, WALTER A. and VERNER, H. GREY — "Metal Drawing Lubricants for Wire, Tubing and Sheet Steel," April, 1951, Page 97.
SOWELL, L. C. — "The Continuous Merchant Mill," June, 1951, Page 72.
SPARKS, J. G. — "Increasing Combustion Efficiency in the Steel Industry," April, 1951, Page 89.
SQUARCY, C. M. and TENEBAUM, M. — "Direct Reduction of Iron Ore Using the Fluidized Solids Technique," August, 1951, Page 119.
STAHL, C. W. and KURTZ, J. K. — "Density Control of Coal Charged to Coke Ovens," May, 1951, Page 93.
STUCK, WILLIAM H. and ABRAMS, J. H. — "Continuous Cascade Pickling," February, 1951, Page 101.
SWANEY, W. A., BISHOP, C. A., BRISSE, A. E., THOMPSON, R. G. and LIEBEL, C. R. — "Cleaning Ferromanganese Blast Furnace Gas," August, 1951, Page 134.

T

TENEBAUM, M. and SQUARCY, C. M. — "Direct Reduction of Iron Ore Using the Fluidized Solids Technique," August, 1951, Page 119.
THOMPSON, R. G., LIEBEL, C. R., SWANEY, W. A., BISHOP C., A. and BRISSE, A. E. — "Cleaning Ferromanganese Blast Furnace Gas," August, 1951, Page 134
TIETIG, JR., R. and SARASIN, B. B. — "Storage and Distribution of Oxygen for the Open Hearth," June, 1951, Page 81.

TRIMBLE, J. R. and HILL, J. E. — "Some Aspects of Annealing Atmospheres for Tin Plate Strip," April, 1951, Page 70.
TUCK, DAVIS H. — "Lighting of Steel Mill Buildings," September, 1951, Page 133.

V

VERNER, H. GREY and SMIGEL, WALTER A. — "Metal Drawing Lubricants for Wire, Tubing and Sheet," April, 1951, Page 97.
VOHR, JOHN H. — "The Next Fifty Years," May, 1951, Page 89.

W

WALKER, HAROLD and ALMEIDA, A. ROBERT — "Jet Tapper Practice at the Open Hearth," December, 1951, Page 108.
WARREN, JR., HENRY E. and GOLDEN, JOHN J. — "Open Hearth Charge Ores," August, 1951, Page 125.
WATTS, H. T. — "Multiple Burners in Open Hearth Furnaces," December, 1951, Page 102.
WEAVER, WADE R. — "Statistical Analysis of Open Hearth Data," February, 1951, Page 53.
WALES, C. CLARKE — "New Facilities for Stocking and Shipping Pipe at Lorain Works," August, 1951, Page 71.
WHITLOCK, J. B. — "Preventive Maintenance Procedures," August, 1951, Page 129.
WICKLINE, F. H. — "Requirements for a Modern Steel Mill Power Distribution System," August, 1951, Page 77.
WILLIS, R. L. — "Automatic Control Systems for Multi-Fuel Firing," May, 1951, Page 84.
WRIGHT, R. H. — "The Blooming Mill — Steel Industry's Iron Horse," March, 1951, Page 98.

Y

YOUNG, JOHN L. — "The Continuous Seamless Pipe Mill," April, 1951, Page 53.

Z

ZEILER, C. A. and KIPP, E. M. — "Laboratory Screening of Multi-Purpose Greases," September, 1951, Page 107.
ZINO, JR., ANTHONY J. — "What to Look for in Hydraulic Fluids," September, 1951, Page 119.

LIST OF SUBJECTS

A

"Abstracts of Papers to be presented at AISE Annual Convention" — September, 1951, Page 158.
"Acceleration Characteristics of Tandem Cold Reduction Mills" — By W. R. HARRIS and R. W. MOORE, July, 1951, Page 63.
"Adjustable Voltage Drives for Ore Handling" — By C. B. RISLER, June, 1951, Page 102.
"AISE Carbon Brush Standardization (Progress Report)" — By ERIC ANDERSON, May, 1951, Page 114.
"AISE Recommended Plain Bearing Design Practice" — By C. E. PRITCHARD, May, 1951, Page 116.
"AISE Specifications for Design of Hot Metal Ladles" — By I. E. MADSEN, May, 1951, Page 119.
"AISE Standard No. 10, Carbon Brush Size and Shunt Standards" — November, 1951, Page 103.
"Alan Wood Steel Co." — By T. J. ESS, May, 1951, Following Page 88.
"Algoma, Blast Furnace Inwall Rebuild at" — By D. JOYCE and J. LAIDLOW, September, 1951, Page 75.
"Algoma Steel Corp., Blast Furnace Controlled Split-Wind Blowing at" — By WILLIAM O. BISHOP, July, 1951, Page 78.
"Alloys for Steel Mill Use, Hard Facing" — By HOWARD S. AVERY, September, 1951, Page 81.
"American Iron and Steel Institute, Technical Program of the" — August, 1951, Page 116.
"Annealing Atmospheres for Tin Plate Strip, Some Aspects of" — By J. R. TRIMBLE and J. E. HILL, April, 1951, Page 70.
"Application of Electronic Control" — By W. R. HARRIS, December, 1951, Page 89.
"Application of Precast Insulation to Water-Cooled Supports in Underfired Furnaces" — By JAMES E. HOVIS, November, 1951, Page 69.
"Aspects of Soaking Pit Operation, Some" — By F. H. GRAHAM, October, 1951, Page 78.
"Association of Iron and Steel Engineers Plain Bearing Recommended Practice" — July, 1951, Following Page 86.
"Automatic Control for Multiple Fuel-Fired Boilers" — By MITCHELL J. BOHO, February, 1951, Page 96.
"Automatic Control Systems for Multi-Fuel Firing" — By R. L. WILLIS, May, 1951, Page 84.
"Axial Compressor for Blast Furnace Blowing, The" — By W. O. LOWELL, October, 1951, Page 64.

B

"Bar Mill at Guest Keen and Nettlefolds, Ltd., Cardiff, Rod and" — By G. A. PHIPPS, October, 1951, Page 99.
"Bearing Design Practice, AISE Recommended Plain" — By C. E. PRITCHARD, May, 1951, Page 116.
"Bearing Recommended Practice, Association of Iron and Steel Engineers Plain" — July, 1951, Following Page 86.
"Bearings, Lubrication and Maintenance of" — By L. E. LOVITT, September, 1951, Page 169.
"Bearings, Maintenance of Oil Film" — By S. CARSON, October, 1951, Page 106.
"Bearings in Steel Plants, Maintenance of Roller" — By PAUL L. HAAGER, September, 1951, Page 172.
"Bessemer Production, Oxygen as a Means of Increasing" — By W. G. McDONOUGH, August, 1951, Page 116.
"Bethlehem Loop Course, The" — By H. C. HOUGHTON, October, 1951, Page 55.
"Billet Mills at Normandy Park Steel Works of John Lysaght's Scunthorpe Works, Ltd., New Blooming and" — By J. A. PEACOCK, October, 1951, Page 95.
"Blast Furnace Blowing, The Axial Compressor for" — By W. O. LOWELL, October, 1951, Page 64.
"Blast Furnace Controlled Split-Wind Blowing at Algoma Steel Corp." — By WILLIAM O. BISHOP, July, 1951, Page 78.
"Blast Furnace Gas, Cleaning Ferromanganese" — By C. A. BISHOP, A. H. BRISSE, R. G. THOMPSON, C. R. LIEBEL and W. A. SWANEY, August, 1951, Page 134.
"Blast Furnace Inwall Rebuild at Algoma" — By D. JOYCE and J. LAIDLOW, September, 1951, Page 75.
"Blooming and Billet Mills at Normandy Park Steel Works of John Lysaght's Scunthorpe Works, Ltd., New" — By J. A. PEACOCK, October, 1951, Page 95.
"Blooming Mill Practices, Modern" — By D. W. LLOYD, February, 1951, Page 59.
"Blooming Mill — Steel Industry's Iron Horse, The" — By R. H. WRIGHT, March, 1951, Page 98.
"Blowing at Algoma Steel Corp., Blast Furnace Controlled Split-Wind" — By WILLIAM O. BISHOP, July, 1951, Page 78.
"Boilers, Automatic Control for Multiple Fuel-Fired" — By MITCHELL J. BOHO, February, 1951, Page 96.
"Bridge Drives with No Torque Shafts, Electric Control of Twin" — By HARVEY BALL, March, 1951, Page 78.
"Brush Size and Shunt Standards, AISE Standard No. 10, Carbon" — November, 1951, Page 103.
"Building Structures, Maintenance of" — By R. O. CHAPMAN, December, 1951, Page 85.
"Buildings, Heating of Steel Mill" — By GEORGE J. CAMPBELL, September, 1951, Page 139.
"Buildings, Lighting of Steel Mill" — By DAVIS H. TUCK, September, 1951, Page 133.
"Buildings, Ventilation of Steel Mill" — By WILLIAM S. JOHNSON, September, 1951, Page 145.
"Burners in Open Hearth Furnaces, Multiple" — By H. T. WATTS, December, 1951, Page 102.

C

"Carbon Brush Size and Shunt Standards, AISE Standard No. 10" — November, 1951, Page 103.
"Centerless Turning of Bars, Billets and Tubes" — By WALTER SIEGERIST, May, 1951, Page 67.
"Circuit Breakers for Short Circuit Protection, Fuses and" — By K. S. KUKA, May, 1951, Page 108.
"Cleaning with Corn Cob Grits, Dry" — By EDGAR W. SHOFF, September, 1951, Page 126.
"Cleaning Ferromanganese Blast Furnace Gas" — By C. A. BISHOP, A. H. BRISSE, R. G. THOMPSON, C. R. LIEBEL and W. A. SWANEY, August, 1951, Page 134.
"Coal Charged to Coke Ovens, Density Control of" — By C. W. STAHL and J. K. KURTZ, May, 1951, Page 93.
"Coal Cleaning in the Pittsburgh Area, Modern" — By R. P. BREMNER, August, 1951, Page 127.
"Coke and By-Products in 1950" — November, 1951, Page 92.
"Coke Ovens, Density Control of Coal Charged to" — By C. W. STAHL and J. K. KURTZ, May, 1951, Page 93.
"Cold Mill, Washington Steel Corp.'s 39-in." — By T. S. FITCH, August, 1951, Page 51.
"Cold Reduction Mills, Acceleration Characteristics of Tandem" — By W. R. HARRIS and R. W. MOORE, July, 1951, Page 63.
"Combustion Efficiency in the Steel Industry, Increasing" — By J. G. SPARKS, April, 1951, Page 89.
"Compressor for Blast Furnace Blowing, The Axial" — By W. O. LOWELL, October, 1951, Page 64.
"Construction and Operation of Tonnage Oxygen Plants" — By MARTIN J. CONWAY, March, 1951, Page 58.
"Continuous Cascade Pickling" — By W. H. STUCK and J. H. ABRAMS, February, 1951, Page 101.
"Continuous Merchant Mill, The" — By L. C. SOWELL, June, 1951, Page 72.

"Continuous Seamless Pipe Mill, The" — By JOHN L. YOUNG, April, 1951, Page 53.
"Control, Application of Electronic" — By W. R. HARRIS, December, 1951, Page 89.
"Control, Instrumentation for Improved Rolling Temperature" — By L. D. CULP, November, 1951, Page 85.
"Control, Maintenance of Electronic" — By O. P. ROBINSON, December, 1951, Page 99.
"Control for Mixed Fuels and Oxygen in Open Hearth Furnaces, Instrumentation and" — By MARTIN J. CONWAY and EDWARD H. CAUGER, July, 1951, Page 106.
"Control Systems for Multi-Fuel Firing, Automatic" — By R. L. WILLIS, May, 1951, Page 84.
"Control and Telemetering as Cost Reduction Tools, Supervisory" — By E. WYLIE HEAD, January, 1951, Page 83.
"Controls on Open Hearth Production at Lackawanna, Effect of Automatic" — By R. M. JORDAN, August, 1951, Page 63.
"Conversion of Filters to Zeolite Softeners" — By G. H. KRAPF, November, 1951, Page 98.
"Corn Cob Grits, Dry Cleaning with" — By EDGAR W. SHOFF, September, 1951, Page 126.
"Crane Control, Design of" — By JOHN D. LEITCH, March, 1951, Page 70.
"Crane Control, Possibilities of Standardizing" — By JOHN A. CORTELLI, March, 1951, Page 81.
"Crane Resistor Design" — By M. A. DuBOIS, March, 1951, Page 77.
"Cranes, Preventive Maintenance for Electric Overhead" — By H. C. MULLINGS, May, 1951, Page 76.

D

"Designing Electronic Equipment for Minimum Maintenance" — By ANTHONY P. DiVINCENZO, December, 1951, Page 95.
"Density Control of Coal Charged to Coke Ovens" — By C. W. STAHL and J. K. KURTZ, May, 1951, Page 93.
"Design of Crane Control" — By JOHN D. LEITCH, March, 1951, Page 70.
"Design and Operation of National Tube's Sintering Plant" — By E. O. AUSTERMILLER, October, 1951, Page 111.
"Developments in the Iron and Steel Industry During 1950"—By I. E. MADSEN, January, 1951, Page 109.
"Developments in Scrap Handling for the Open Hearth" — By L. R. RISSLER, August, 1951, Page 108.
"Developments in the Use of Stainless Steel" — By JOHN L. COTSWORTH, November, 1951, Page 66.
"Direct Reduction of Iron Ore Using the Fluidized Solids Technique" — By M. TENEBAUM and C. M. SQUARCY, August, 1951, Page 119.
"Distribution System, Requirements for a Modern Steel Mill Power" — By F. H. WICKLINE, August, 1951, Page 77.
"Dust Fume and Smoke Suppression" — By AUBREY J. GRINDLE, July, 1951, Page 87.
"Dry Cleaning with Corn Cob Grits" — By EDGAR W. SHOFF, September, 1951, Page 126.

E

"Economics of a 500-Ton Open Hearth Furnace" — By W. W. KOMPART, March, 1951, Page 55.
"Economics of Purchased Power vs Plant Generated Power in the Pittsburgh District" — By W. B. SKINKLE, August, 1951, Page 85.
"Effect of Automatic Controls on Open Hearth Production at Lackawanna" — By R. M. JORDAN, August, 1951, Page 63.
"Effect of Sinter on Blast Furnace Production as Determined by Analysis of Daily Operating Data, The" — By W. E. MARSHALL, August, 1951, Page 124.
"Effect of Track Time on Soaking Pit Heating" — By J. R. CHEGWIDDEN, December, 1951, Page 53.
"Electric Control of Twin Bridge Drives with No Torque Shafts" — By HARVEY BALL, March, 1951, Page 78.
"Electric Furnace or Open Hearth?" — By C. F. RAMSEYER, June, 1951, Page 57.
"Electrical Equipment, Fire Protection for" — By J. T. W. BABCOCK, January, 1951, Page 96.
"Electronic Control, Application of" — By W. R. HARRIS, December, 1951, Page 89.
"Electronic Control, Maintenance of" — By O. P. ROBINSON, December, 1951, Page 99.
"Electronic Equipment for Minimum Maintenance, Designing" — By ANTHONY P. DiVINCENZO, December, 1951, Page 95.
"Electronically Operated Instrument Equipment, Operation and Maintenance of" — By JOHN R. GREEN, May, 1951, Page 102.
"Electroplating Rectifiers" — By L. W. REINKEN, February, 1951, Page 89.
"Engineering Department — A Round Table Symposium, How to Organize an" — November, 1951, Page 53.
"Extreme Pressure Lubricants" — By JAMES H. LEWIS, September, 1951, Page 114.

F

"Facilities for Stocking and Shipping Pipe at Lorain Works, New" — By C. CLARKE WALES, August, 1951, Page 71.
"Fire Protection for Electrical Equipment" — By J. T. W. BABCOCK, January, 1951, Page 96.
"Fuels and Oxygen in Open Hearth Furnaces, Instrumentation and Control for Mixed" — By MARTIN J. CONWAY and EDWARD H. CAUGER, July, 1951, Page 106.
"Fundamental Investigation of Steel Plant Refractories Problems" — By ARNULF MUAN and E. F. OSBORN, August, 1951, Page 124.
"Furnace, Economics of a 500-Ton Open Hearth" — By W. W. KOMPART, March, 1951, Page 55.
"Furnace or Open Hearth?, Electric" — By C. F. RAMSEYER, June, 1951, Page 57.
"Furnaces, Application of Precast Insulation to Water-Cooled Supports in Underfired" — By JAMES E. HOVIS, November, 1951, Page 69.
"Furnaces, Metallic Recuperators for Slab Heating" — By R. R. SHEDD, July, 1951, Page 55.
"Furnaces, Multiple Burners in Open Hearth" — By H. T. WATTS, December, 1951, Page 102.
"Fuses and Circuit Breakers for Short Circuit Protection" — By K. S. KUKA, May, 1951, Page 108.

G

"Gages for Flat Rolled Steel Products, Non-contacting Thickness" — By W. A. BLACK, August, 1951, Page 132.
"Gears for Rolling Mill Equipment, Selecting" — By E. C. DENNE, April, 1951, Page 62.
"Gears Subject to Chronic Water Conditions, Lubrication of Enclosed" — — By JOSEPH A. RIGBY, November, 1951, Page 73.
"Graphite as a Lubricant" — By E. S. GLAUCH, August, 1951, Page 58.
"Greases, Laboratory Screening of Multi-Purpose" — By E. M. KIPP and C. A. ZEILER, September, 1951, Page 107.
"Grounding Practice at Inland Steel" — By V. E. SCHLOSSBERG, June, 1951, Page 77.
"Guides in Modern Merchant Mill Practice, Roller" — By C. S. LAMBERT, February, 1951, Page 79.

H

"Handling and Storage of Electrical Parts" — By A. W. McAULY, December, 1951, Page 66.
"Hard Facing Alloys for Steel Mill Use" — By HOWARD S. AVERY, September, 1951, Page 81.
"Hazards of Back-Drafting" — By OWEN R. RICE, April, 1951, Page 118.
"Heating, Effect of Track Time on Soaking Pit" — By J. R. CHEGWIDDEN, December, 1951, Page 53.
"Heating of Steel Mill Buildings" — By GEORGE J. CAMPBELL, September, 1951, Page 139.
"How to Organize an Engineering Department — A Round Table Symposium" — November, 1951, Page 53.
"Human Relations, Increased Productivity Through" — By C. L. HUSTON, JR., August, 1951, Page 140.
"Human Relations in Industry" — By R. E. ROBERTS, June, 1951, Page 68.
"Hydraulic Equipment, Oil-" — By E. A. BERGLUND, November, 1951, Page 75.
"Hydraulic Fluids, What to Look for in" — By ANTHONY J. ZINO, JR., September, 1951, Page 119.

I

"Improving Current Practice in Blast Furnace Sintering" — By ROBERT E. POWERS, August, 1951, Page 120.
"Incentives, Increased Productivity Through" — By R. C. COOPER, August, 1951, Page 138.
"Increased Productivity Through Human Relations" — By C. L. HUSTON, JR., August, 1951, Page 140.
"Increased Productivity Through Incentives" — By R. C. COOPER, August, 1951, Page 138.
"Increased Productivity Through Safety and Accident Prevention" — By HJALMAR W. JOHNSON, August, 1951, Page 136.
"Increased Productivity Through Training" — By JOSEPH S. KOPAS, August, 1951, Page 137.
"Increasing Combustion Efficiency in the Steel Industry" — By J. G. SPARKS, April, 1951, Page 89.
"Industry, Human Relations in" — By R. E. ROBERTS, June, 1951, Page 68.
"Inland Steel, Grounding Practice at" — By V. E. SCHLOSSBERG, June, 1951, Page 77.
"Instrument Equipment, Operation and Maintenance of Electronically Operated" — By JOHN R. GREEN, May, 1951, Page 102.
"Instrumentation and Control for Mixed Fuels and Oxygen in Open Hearth Furnaces" — By MARTIN J. CONWAY and EDWARD H. CAUGER, July, 1951, Page 106.
"Instrumentation for Improved Rolling Temperature Control" — By L. D. CULP, November, 1951, Page 85.
"Insulation to Water-Cooled Supports in Underfired Furnaces, Application of Precast" — By JAMES E. HOVIS, November, 1951, Page 69.
"Inwall Rebuild at Algoma, Blast Furnace" — By D. JOYCE and J. LAIDLOW, September, 1951, Page 75.
"Iron Ore Using the Fluidized Solids Technique, Direct Reduction of" — By M. TENEBAUM and C. M. SQUARCY, August, 1951, Page 119.
"Iron, Properties and Application of Ductile" — By G. L. COX, December, 1951, Page 75.

J

"Jet Tapper Practice at the Open Hearth" — By HAROLD WALKER and A. ROBERT ALMEIDA, December, 1951, Page 108.
"Jet Tapping of Open Hearth Furnaces" — By H. H. NORTHRUP, July, 1951, Page 83.

K

"Keystone Steel and Wire Co., 19-Stand Rod Mill of" — By WILLIAM HERMAN, January, 1951, Page 91.
"Krupp-Renn Tests on French Minette Ore" — By P. E. HENRY, C. F. RAMSEYER and J. R. MILLER, February, 1951, Page 66.

L

"Laboratory Screening of Multi-Purpose Greases" — By E. M. KIPP and C. A. ZEILER, September, 1951, Page 107.
"Ladles, AISE Specification for Design of Hot Metal" — By I. E. MADSEN, May, 1951, Page 119.
"Light Section Mill at Darlington and Simpson Rolling Mill Co., Ltd." — By W. FRENCH, October, 1951, Page 102.
"Lighting of Steel Mill Buildings" — By DAVIS H. TUCK, September, 1951, Page 133.
"Limiting Maximum Overload on Wound Rotor Induction Motor" — By J. W. DEIMLER, October, 1951, Page 90.
"Loop Course, The Bethlehem" — By H. C. HOUGHTON, October, 1951, Page 55.
"Lorain Works, New Facilities for Stocking and Shipping Pipe at" — By C. CLARKE WALES, August, 1951, Page 71.
"Low Inertia D-C Motors for Rolling Mill Drives" — By J. H. SCHNEIDER, October, 1951, Page 71.
"Lubricant, Graphite as a" — By E. S. GLAUCH, August, 1951, Page 58.
"Lubricants, Extreme Pressure" — By JAMES H. LEWIS, September, 1951, Page 114.
"Lubricants for Wire, Tubing and Sheet Steel, Metal Drawing" — By WALTER A. SMIGEL and H. GREY VERNER, April, 1951, Page 97.
"Lubricating Problems at Sparrows Point, Recent" — By A. E. CICHELLI, December, 1951, Page 110.
"Lubrication of Enclosed Gears Subject to Chronic Water Conditions" — By JOSEPH A. RIGBY, November, 1951, Page 73.
"Lubrication and Maintenance of Bearings" — By L. E. LOVITT, September, 1951, Page 169.
"Lubrication of Wire Rope" — By JOSEPH A. RIGBY, September, 1951, Page 131.

M

"Maintenance of Building Structures" — By R. O. CHAPMAN, December, 1951, Page 85.
"Maintenance, Designing Electronic Equipment for Minimum" — By ANTHONY P. DiVINCENZO, December, 1951, Page 95.
"Maintenance for Electric Overhead Cranes, Preventive" — By H. C. MULLINGS, May, 1951, Page 76.
"Maintenance of Electronic Control" — By O. P. ROBINSON, December, 1951, Page 99.
"Maintenance of Electronically Operated Instrument Equipment, Operation and" — By JOHN R. GREEN, May, 1951, Page 102.
"Maintenance of Oil Film Bearings" — By S. CARSON, October, 1951, Page 106.
"Maintenance Procedures, Preventive" — By J. B. WHITLOCK, August, 1951, Page 129.
"Maintenance of Roller Bearings in Steel Plants" — By PAUL L. HAAGER, September, 1951, Page 172.
"Manufacture of Electric Fusion Welded Pipe" — By J. H. MIDDLETON, March, 1951, Page 66.
"Merchant Mill, The Continuous" — By L. C. SOWELL, June, 1951, Page 72.
"Merchant Mill Practice, Roller Guides in Modern" — By C. S. LAMBERT, February, 1951, Page 79.
"Metal Drawing Lubricants for Wire, Tubing and Sheet Steel" — By WALTER A. SMIGEL and H. GREY VERNER, April, 1951, Page 97.
"Metallic Recuperators for Slab Heating Furnaces" — By R. R. SHEDD, July, 1951, Page 55.
"Method for Handling Steel Making Slag, A" — October, 1951, Page 85.
"Mill, The Continuous Merchant" — By L. C. SOWELL, June, 1951, Page 72.
"Mill at Darlington and Simpson Rolling Mill Co., Ltd., Light Section" — By W. FRENCH, October, 1951, Page 102.
"Mill of Keystone Steel and Wire Co., 19-Stand Rod" — By WILLIAM HERMAN, January, 1951, Page 91.
"Mill, Operating the World's Fastest" — By J. R. POWELL and GEORGE A. KAUFMAN, January, 1951, Page 73.
"Mill Practice, Roller Guides in Modern Merchant" — By C. S. LAMBERT, February, 1951, Page 79.
"Mill Practices, Modern Blooming" — By D. W. LLOYD, February, 1951, Page 59.
"Mill — Steel Industry's Iron Horse, The Blooming" — By R. H. WRIGHT, March, 1951, Page 98.
"Mills, Acceleration Characteristics of Tandem Cold Reduction" — By W. R. HARRIS and R. W. MOORE, July, 1951, Page 63.
"Mills, Power for Hot Strip" — By A. F. KENYON, April, 1951, Page 80.
"Mills in the United Kingdom, Some New Rolling" — October, 1951, Page 93.
"Modern Blooming Mill Practices" — By D. W. LLOYD, February, 1951, Page 59.
"Modern Coal Cleaning in the Pittsburgh Area" — By R. P. BREMNER, August, 1951, Page 127.
"Motor Inspector Training" — By GEORGE M. KENNEDY, July, 1951, Page 74.
"Motor, Limiting Maximum Overload on Wound Rotor Induction" — By J. W. DEIMLER, October, 1951, Page 90.
"Motor Standardization, Report on Mill" — By M. B. ANTRIM, May, 1951, Page 118.
"Motors and Motor Rooms, Ventilation of Steel Mill" — By S. L. JAMESON, January, 1951, Page 68.
"Motors for Rolling Mill Drives, Low Inertia D-C" — By J. H. SCHNEIDER, October, 1951, Page 71.
"Multiple Burners in Open Hearth Furnaces" — By H. T. WATTS, December, 1951, Page 102.

N

"National Tube's Sintering Plant, Design and Operation of" — By E. O. AUSTERMILLER, October, 1951, Page 111.
"New Processing Scalebreaker, A" — By J. I. GREENBERGER, June, 1951, Page 95.
"New Slab Shear at Rotary Electric Steel Co., A" — By E. T. PETERSON, December, 1951, Page 59.
"Next Fifty Years, The" — By JOHN H. VOHR, May, 1951, Page 89.
"19-Stand Rod Mill of Keystone Steel and Wire Co." — By WILLIAM HERMAN, January, 1951, Page 91.
"Non-Contacting Thickness Gages for Flat Rolled Steel Products" — By W. A. BLACK, August, 1951, Page 132.

O

"Oil-Hydraulic Equipment" — By E. A. BERGLUND, November, 1951, Page 75.
"Oil in the Steel Plant, Transformer" — By JOHN F. BOAL, July, 1951, Page 97.
"Open Hearth Charge Ores" — By JOHN J. GOLDEN and HENRY E. WARREN, JR., August, 1951, Page 125.
"Open Hearth Controls, Operating Advantages and Limitations of" — By B. B. BARGMAN, March, 1951, Page 91.
"Open Hearth Data, Statistical Analysis of" — By WADE R. WEAVER, February, 1951, Page 53.
"Open Hearth?, Electric Furnace or" — By C. F. RAMSEYER, June, 1951, Page 57.
"Open Hearth Furnace, Economics of a 500-Ton" — By W. W. KOMPART, March, 1951, Page 55.
"Open Hearth Furnaces, Instrumentation and Control for Mixed Fuels and Oxygen in" — By MARTIN J. CONWAY and EDWARD H. CAUGER, July, 1951, Page 106.
"Open Hearth Furnaces, Jet Tapping of" — By H. H. NORTHRUP, July, 1951, Page 83.
"Open Hearth Furnaces, Multiple Burners in" — By H. T. WATTS, December, 1951, Page 102.
"Open Hearth, Jet Tapper Practice at the" — By HAROLD WALKER and A. ROBERT ALMEIDA, December, 1951, Page 108.
"Open Hearth, New Developments in Scrap Handling for the" — By L. R. RISSLER, August, 1951, Page 108.
"Open Hearth Operation, Significance of Air Temperature in" — By JOHN S. MARSH, August, 1951, Page 117.
"Open Hearth Production at Lackawanna, Effect of Automatic Controls on" — By R. M. JORDAN, August, 1951, Page 63.
"Open Hearth, Storage and Distribution of Oxygen for the" — By B. P. SARASIN and R. TIETIG, JR., June, 1951, Page 81.
"Operating Advantages and Limitations of Open Hearth Controls" — By B. B. BARGMAN, March, 1951, Page 91.
"Operating the World's Fastest Mill" — By J. R. POWELL and GEORGE A. KAUFMAN, January, 1951, Page 73.
"Operation and Maintenance of Electronically Operated Instrument Equipment" — By JOHN R. GREEN, May, 1951, Page 102.
"Ore Handling, Adjustable Voltage Drives for" — By C. B. RISLER, June, 1951, Page 102.
"Ore, Krupp-Renn Tests on French Minette" — By P. E. HENRY, C. F. RAMSEYER and J. R. MILLER, February, 1951, Page 66.
"Ores, Open Hearth Charge" — By JOHN J. GOLDEN and HENRY E. WARREN, JR., August, 1951, Page 125.
"Overload on Wound Rotor Induction Motor, Limiting Maximum" — By J. W. DEIMLER, October, 1951, Page 90.
"Oxygen as a Means of Increasing Bessemer Production" — By W. G. McDONOUGH, August, 1951, Page 116.
"Oxygen for the Open Hearth, Storage and Distribution of" — By B. P. SARASIN and R. TIETIG, JR., June, 1951, Page 81.
"Oxygen Plants, Construction and Operation of Tonnage" — By MARTIN J. CONWAY, March, 1951, Page 58.

P

"Pickling, Continuous Cascade" — By W. H. STUCK and J. H. ABRAMS, February, 1951, Page 101.
"Pipe at Lorain Works, New Facilities for Stocking and Shipping" — By C. CLARKE WALES, August, 1951, Page 71.
"Pipe, Manufacture of Electric Fusion Welded" — By J. H. MIDDLETON, March, 1951, Page 66.
"Pipe Mill, The Continuous Seamless" — By JOHN L. YOUNG, April, 1951, Page 53.
"Pollution Control Program for Ohio" — By BRUCE M. McDILL, August, 1951, Page 101.
"Possibilities of Standardizing Crane Control" — By JOHN A. CORTELLI, March, 1951, Page 81.
"Power Distribution System, Requirements for a Modern Steel Mill" — By F. H. WICKLINE, August, 1951, Page 77.

"Power for Hot Strip Mills" — By A. F. KENYON, April, 1951, Page 80.
"Power vs Plant Generated Power in the Pittsburgh District, Economics of Purchased" — By W. B. SKINKLE, August, 1951, Page 85.
"Preventive Maintenance for Electric Overhead Cranes" — By H. C. MULLINGS, May, 1951, Page 76.
"Preventive Maintenance Procedures" — By J. B. WHITLOCK, August, 1951, Page 129.
"Problems in Steel Plant Administration" — By H. W. JOHNSON, October, 1951, Page 122.
"Program — 1951 AISE Convention" — September, 1951, Page 150.
"Properties and Application of Ductile Iron" — By G. L. COX, December, 1951, Page 75.

R

"Recent Lubricating Problems at Sparrows Point" — By A. E. CICHELLI, December, 1951, Page 110.
"Recent and Prospective Sinter Plant Improvements" — By A. A. NILSEN, August, 1951, Page 122.
"Rectifiers, Electroplating" — By L. W. REINKEN, February, 1951, Page 89.
"Recuperators for Slab Heating Furnaces, Metallic" — By R. R. SHEDD, July, 1951, Page 55.
"Refractories Problems, Fundamental Investigation of Steel Plant" — By ARNULF MUAN and E. F. OSBORN, August, 1951, Page 124.
"Report of Activities of AISE Standardization Committee" — By LEO J. GOULD, May, 1951, Page 113.
"Report on Mill Motor Standardization" — By M. B. ANTRIM, May, 1951, Page 118.
"Report of Rolling Experiences, A" — By LOUIS MOSES, January, 1951, Page 59.
"Requirements for a Modern Steel Mill Power Distribution System" — By F. H. WICKLINE, August, 1951, Page 77.
"Resistor Design, Crane" — By M. A. DuBOIS, March, 1951, Page 77.
"Rod and Bar Mill at Guest Keen and Nettlefolds, Ltd., Cardiff" — By G. A. PHIPPS, October, 1951, Page 99.
"Rod Mill of Keystone Steel and Wire Co., 19-Stand" — By WILLIAM HERMAN, January, 1951, Page 91.
"Roller Guides in Modern Merchant Mill Practice" — By C. S. LAMBERT, February, 1951, Page 79.
"Rolling Experiences, A Report of" — By LOUIS MOSES, January, 1951, Page 59.
"Rolling Mill Drives, Low Inertia D-C Motors for" — By J. H. SCHNEIDER, October, 1951, Page 71.
"Rolling Mill Equipment, Selecting Gears for" — By E. C. DENNE, April, 1951, Page 62.
"Rolling Mills in the United Kingdom, Some New" — October, 1951, Page 93.
"Rolling Solutions for Specialty Steels" — By MAXWELL L. BIBLE, June, 1951, Page 91.
"Rolling of Tool Steels" — By H. C. BIGGE, May, 1951, Page 57.
"Rolls for Cold Rolling Metals, Tungsten Carbide" — By R. T. BEEGHLY, April, 1951, Page 74.
"Rooms, Ventilation of Steel Mill Motors and Motor" — By S. L. JAMESON, January, 1951, Page 68.
"Rope, Lubrication of Wire" — By JOSEPH A. RIGBY, September, 1951, Page 131.
"Rotary Electric Steel Co., A New Slab Shear at" — By E. T. PETERSON, December, 1951, Page 59.

S

"Safety and Accident Prevention, Increased Productivity Through" — By HJALMAR W. JOHNSON, August, 1951, Page 136.
"Scalebreaker, A New Processing" — By J. I. GREENBERGER, June, 1951, Page 95.
"Scrap Handling for the Open Hearth, New Developments in" — By L. R. RISSLER, August, 1951, Page 108.
"Seamless Pipe Mill, The Continuous" — By JOHN L. YOUNG, April, 1951, Page 53.
"Selecting Gears for Rolling Mill Equipment" — By E. C. DENNE, April, 1951, Page 62.
"75 Years of Lubrication Service" — July, 1951, Page 116.
"Shear at Rotary Electric Steel Co., A New Slab" — By E. T. PETERSON, December, 1951, Page 59.
"Shotton, The New 42-In. Slabbing Mill at" — By J. F. R. JONES, October, 1951, Page 93.
"Significance of Air Temperature in Open Hearth Operation" — By JOHN S. MARSH, August, 1951, Page 117.
"Sinter on Blast Furnace Production as Determined by Analysis of Daily Operating Data, The Effect of" — By W. E. MARSHALL, August, 1951, Page 124.
"Sinter Plant Improvements, Recent and Prospective" — By A. A. NILSEN, August, 1951, Page 122.
"Sinter, Testing of" — By E. G. HILL and ROBERT E. POWERS, August, 1951, Page 121.
"Sintering, Improving Current Practice in Blast Furnace" — By ROBERT E. POWERS, August, 1951, Page 120.
"Sintering Plant, Design and Operation of National Tube's" — By E. O. AUSTERMILLER, October, 1951, Page 111.
"Slabbing Mill at Shotton, The New 42-In." — By J. F. R. JONES, October, 1951, Page 93.
"Smoke Suppression, Dust Fume and" — By AUBREY J. GRINDLE, July, 1951, Page 87.
"Soaking Pit Heating, Effect of Track Time on" — By J. R. CHEGWIDDEN, December, 1951, Page 53.
"Soaking Pit Operation, Some Aspects of" — By F. H. GRAHAM, October, 1951, Page 78.
"Soaking Pit Practice, Steel Quality as Affected by Track Time and" — By A. F. MOHRI, August, 1951, Page 130.
"Softeners, Conversion of Filters to Zeolite" — By G. H. KRAPF, November, 1951, Page 98.
"Solutions for Specialty Steels, Rolling" — By MAXWELL L. BIBLE, June, 1951, Page 91.
"Some Aspects of Annealing Atmospheres for Tin Plate Strip" — By J. R. TRIMBLE and J. E. HILL, April, 1951, Page 70.
"Some New Rolling Mills in the United Kingdom" — October, 1951, Page 93.
"Sparrows Point, Recent Lubricating Problems at" — By A. E. CICHELLI, December, 1951, Page 110.
"Stainless Steel, Developments in the Use of" — By JOHN L. COTSWORTH, November, 1951, Page 66.
"Statistical Analysis of Open Hearth Data" — By WADE R. WEAVER, February, 1951, Page 53.
"Steel, Developments in the Use of Stainless" — By JOHN L. COTSWORTH, November, 1951, Page 66.
"Steel Quality as Affected by Track Time and Soaking Pit Practice" — By A. F. MOHRI, August, 1951, Page 130.
"Steels, Rolling of Tool" — By H. C. BIGGE, May, 1951, Page 57.
"Stocking and Shipping Pipe at Lorain Works, New Facilities for" — By C. CLARKE WALES, August, 1951, Page 71.
"Storage and Distribution of Oxygen for the Open Hearth" — By B. P. SARASIN and R. TIETIG, JR., June, 1951, Page 81.
"Storage of Electrical Parts, Handling and" — By A. W. McAULY, December, 1951, Page 66.
"Strip, Some Aspects of Annealing Atmospheres for Tin Plate" — By J. R. TRIMBLE and J. E. HILL, April, 1951, Page 70.
"Supervisory Control and Telemetering as Cost Reduction Tools" — By E. WYLIE HEAD, January, 1951, Page 83.
"Supervisory Development" — By A. C. CROFT, June, 1951, Page 110.

T

"Tandem Cold Reduction Mills, Acceleration Characteristics of" — By W. R. HARRIS and R. W. MOORE, July, 1951, Page 63.
"Tapper Practice at the Open Hearth, Jet" — By HAROLD WALKER and A. ROBERT ALMEIDA, December, 1951, Page 108.
"Technical Program of the American Iron and Steel Institute" — August, 1951, Page 116.
"Telemetering as Cost Reduction Tools, Supervisory Control and" — By E. WYLIE HEAD, January, 1951, Page 83.
"Television in Industry" — By J. A. GOOD, March, 1951, Page 107.
"Temperature Control, Instrumentation for Improved Rolling" — By L. D. CULP, November, 1951, Page 85.
"Testing of Sinter" — By E. G. HILL and ROBERT E. POWERS, August, 1951, Page 121.
"Training, Increased Productivity Through" — By JOSEPH S. KOPAS, August, 1951, Page 137.
"Training, Motor Inspector" — By GEORGE M. KENNEDY, July, 1951, Page 74.
"Transformer Oil in the Steel Plant" — By JOHN F. BOAL, July, 1951, Page 97.
"Treatment in the Modern Steel Mill, Waste" — By J. E. COOPER, November, 1951, Page 81.
"Tungsten Carbide Rolls for Cold Rolling Metals" — By R. T. BEEGHLY, April, 1951, Page 74.
"Turning of Bars, Billets and Tubes, Centerless" — By WALTER SIEGERIST, May, 1951, Page 67.

U

"United Kingdom, Some New Rolling Mills in the" — October, 1951, Page 93.

V

"Ventilation of Steel Mill Buildings" — By WILLIAM S. JOHNSON, September, 1951, Page 145.
"Ventilation of Steel Mill Motors and Motor Rooms" — By S. L. JAMESON, January, 1951, Page 68.

W

"Washington Steel Corp.'s 39-In. Cold Mill" — By T. S. FITCH, August, 1951, Page 51.
"Waste Treatment in the Modern Steel Mill" — By J. E. COOPER, November, 1951, Page 81.
"Water-Cooled Supports in Underfired Furnaces, Application of Precast Insulation to" — By JAMES E. HOVIS, November, 1951, Page 69.
"Welded Pipe, Manufacture of Electric Fusion" — By J. H. MIDDLETON, March, 1951, Page 66.
"What to Look for in Hydraulic Fluids" — By ANTHONY J. ZINO, JR., September, 1951, Page 119.
"Wiring Standardization (Progress Report)" — By C. G. DIMITT, May, 1951, Page 122.

Z

"Zeolite Softeners, Conversion of Filters to" — By G. H. KRAPF, November, 1951, Page 98.